Downriver Community Conference Brownfield Consortium Southgate, Michigan

Phase II Environmental Site Assessment
Washtenaw County Juvenile Center
and O'Brien Center
2260 and 2270 Platt Road
Ann Arbor, Michigan

September 2010







September 15, 2010

TTL Project No. 6358.04

Ms. Paula Boase Downriver Community Conference Brownfield Consortium 15100 Northline Road Southgate, Michigan 48195

Phase II Environmental Site Assessment Washtenaw County Juvenile Center and O'Brien Center 2260 and 2270 Platt Road Ann Arbor, Michigan

Dear Ms. Boase:

The Phase II Environmental Site Assessment (ESA) conducted for the Downriver Community Conference Brownfield Consortium (DCCBC) and Washtenaw County by TTL Associates, Inc. (TTL) for the above-referenced site is enclosed.

TTL appreciates the opportunity to continue to provide the DCCBC with our engineering, consulting, and testing services. Should you have any questions or require additional information, please contact us at (734) 455-8600.

Robin J. Clark

Senior Scientist

Sincerely,

TTL Associates, Inc.

Steven J. Gach, P.E. Senior Engineer

cc: Mr. Brett Lenart, Washtenaw County

Enclosure

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PHASE II ENVIRONMENTAL SITE ASSESSMENT WASHTENAW COUNTY JUVENILE CENTER AND O'BRIEN CENTER 2260 AND 2270 PLATT ROAD ANN ARBOR, MICHIGAN

FOR

DOWNRIVER COMMUNITY CONFERENCE BROWNFIELD CONSORTIUM 15100 NORTHLINE ROAD SOUTHGATE, MICHIGAN

SEPTEMBER 15, 2010 TTL PROJECT NO. 6358.04

TTL ASSOCIATES, INC.
44265 PLYMOUTH OAKS BOULEVARD
PLYMOUTH, MICHIGAN 48170
(734) 455-8600
FAX: (734) 455-8608



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1.0 INTRODUCTION

This report presents the methodologies and findings of a Phase II Environmental Site Assessment (ESA) conducted by TTL Associates, Inc. (TTL) in August 2010 for the Downriver Community Conference Brownfield Consortium (DCCBC) and Washtenaw County for the property located at 2260 and 2270 Platt Road in Ann Arbor, Washtenaw County, Michigan (site). Figure 1.0 illustrates the site location. The scope of work for this Phase II ESA was based on the findings of TTL's Phase I ESA for the site, dated May 11, 2010. This Phase II ESA was conducted under TTL's contract with the DCCBC and was funded by the DCCBC's 2009 U.S. EPA Brownfield Assessment Grant.

1.1 Site Description

The site is approximately 10 acres in area and consists of a portion of one approximately 140-acre parcel. The site is occupied by one juvenile court and detention building, one office building, and asphalt and concrete paved and landscaped areas on the northern portion of the site. The remaining areas of the site are occupied by unimproved land. Figure 2.0 illustrates the current site features.

1.2 Site Background

The site was undeveloped and/or agricultural land from at least 1937 to 1954. The northeastern site building (the O'Brien Center, 2260 Platt Road) was constructed in approximately 1954. The current juvenile court and detention building (Washtenaw County Juvenile Center, 2270 Platt Road) was constructed in approximately 1969. The 2260 Platt Road building was operated as the juvenile detention center until the newer building was constructed.

The Phase I ESA identified the following recognized environmental condition (REC) in connection with the site:

• Ann Arbor Fire Department records indicate that the northeastern site building (2260 Platt Road) was heated via heating oil in 1956 through at least the early 1970s, before natural gas was used at the site. No documentation was identified during the Phase I ESA regarding whether the heating oil was stored in an aboveground storage tank (AST) or underground storage tank (UST). The possible former use of a heating oil UST at the site was identified as a REC in the Phase I ESA.

On May 14, 2010, subsequent to the completion of the Phase I ESA, CTI and Associates, Inc. (CTI) completed a magnetometer survey in the area of the suspected heating oil UST. The magnetometer survey identified the presence of a heating oil UST, reportedly 1,000 gallons in capacity, approximately 20 feet east of the boiler room for the 2260 Platt Road building. A copy of the CTI report is included as Appendix A.

1.3 Purpose

Washtenaw County intends to vacate the site in the near future. The Phase I and Phase II ESAs were conducted in association with plans for marketing and redevelopment of the site. The Phase II ESA investigation was conducted to assess whether the site has been impacted by the REC identified



during the Phase I ESA, the heating oil UST located east of the boiler room in the northeastern site building (2260 Platt Road). The results of the Phase II ESA are also being used to preliminarily assess potential due care obligations associated with future site development.



2.0 FIELD ACTIVITIES

Field activities performed at the site during the Phase II ESA included soil borings, collecting and field screening soil samples from soil borings, and collecting groundwater samples from the borings, if encountered. Field activities were completed in accordance with the Quality Assurance Project Plan (QAPP) that was prepared by TTL for investigations under the U.S. EPA Assessment Grant to the DCCBC and TTL's site-specific Sampling and Analysis Plan (SAP) for the Phase II ESA. Both the QAPP and SAP were reviewed and approved by the U.S. EPA.

2.1 Soil Boring and Associated Soil Sampling

On August 5, 2010, TTL advanced four soil borings (GP-1 through GP-4) at the site with a Geoprobe[®] hydraulic-push sampling apparatus under the supervision of a TTL environmental engineer. The four borings were advanced along each side of the approximately 1,000-gallon heating oil UST. The borings were conducted within five feet of the UST. Figure 3.0 illustrates the approximate soil boring locations.

The soil borings were each advanced to a depth at which probe refusal was encountered, ranging from approximately 7 to 10 feet below ground surface (bgs). Soil samples were collected within disposable acetate sleeves in continuous four-foot increments from each borehole so that the materials encountered could be observed, described, and sampled in a relatively undisturbed state. Sampling equipment was decontaminated prior to each sampling run, utilizing Liquinox soap and de-ionized water rinses to minimize the potential for sample cross-contamination.

The site stratigraphy encountered generally consisted of six to eight inches of topsoil underlain by sand with some gravel to the boring termination depths (approximately 7 to 10 feet bgs). Probe refusal conditions were encountered at each boring location, apparently due to gravel or cobbles within the sand. Groundwater was not encountered in the soil borings. Soil boring logs for the Phase II ESA soil borings are provided in Appendix B.

Soil samples collected from each soil boring were split into two portions: one for potential laboratory analysis and one for field screening. Samples for potential laboratory analysis were placed in laboratory-cleaned, glass sample containers fitted with Teflon[®]-lined lids. In addition, soil samples collected for potential laboratory analysis for volatile organic compounds (VOCs) were field-preserved with methanol pursuant to U.S. EPA SW-846 Method 5035. U.S. EPA approved sampling procedures were followed to ensure sample integrity.

Samples for field screening were placed in dedicated, resealable plastic bags and screened on-site using a field photoionization detector (PID) to preliminarily assess the samples for the presence of total organic vapors. PID screening was conducted for each sample following the accumulation of headspace vapor from the sample in the sealed plastic bag. No elevated PID readings were encountered in any of the soil borings. No petroleum hydrocarbon odors or staining were noted in any of the soil borings. The PID readings are included on the soil boring logs in Appendix B.

One soil sample was collected from each soil boring for laboratory analysis. Soil samples were selected for laboratory analysis from the depth intervals that appeared most likely to be impacted



based on the field screening results, the site's geologic characteristics and the potential source of impact. Soil samples were collected from approximately six to nine feet bgs, the approximate depth of the UST bottom.

A duplicate soil sample was obtained from soil boring GP-3 for QA/QC purposes. Matrix spike/matrix spike duplicate (MS/MSD) soil samples were also obtained from soil boring GP-3 for laboratory QA/QC purposes. In addition to the duplicate samples, a methanol blank was submitted for laboratory analysis for QA/QC purposes. Samples were delivered under chain-of-custody protocol to the laboratory in an ice-cooled container.

2.2 Groundwater Sampling

Groundwater was not encountered in the Phase II ESA soil borings; no groundwater samples were collected.



3.0 ANALYTICAL RESULTS

RTI Laboratories, Inc. (RTI) of Livonia, Michigan performed the laboratory analyses per the requirements of the QAPP. RTI is the laboratory specified in the QAPP. The analytical parameters and methods were selected by TTL on the basis of site conditions, the identified REC, and/or Michigan Department of Natural Resources and Environment (MDNRE) guidance. Each of the soil samples was analyzed for MDNRE-recommended parameters for heating oil, including: benzene, toluene, ethylbenzene and xylenes (BTEX); trimethylbenzene isomers (TMBs); and polynuclear aromatic hydrocarbons (PNAs). Copies of the laboratory analytical report and the chain-of-custody record are included as Appendix C. Analytical methods are specified in the laboratory report.

3.1 Soil Sample Results

Table 1.0 summarizes the laboratory analytical results for the soil samples analyzed. The tables also include the most stringent potentially applicable Michigan Public Act 451 of 1994, as amended, Part 201 (Part 201) cleanup criteria for residential land use: drinking water protection, soil volatilization to indoor air inhalation, and direct contact. Regardless of the current or future intended property use, these are the criteria to determine if the site is a "facility" as defined under Part 201. The following is a summary of the soil laboratory analytical results:

- No BTEX or TMB compounds were detected in any of the soil samples.
- No PNAs were detected in any of the soil samples.

3.2 **Groundwater Sample Results**

No groundwater was encountered; no groundwater samples were collected or analyzed.



4.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

TTL conducted a subsurface investigation at the site in August 2010 to assess for possible impacts to soil and/or groundwater at the site related to the REC identified in the Phase I ESA, the heating oil UST formerly used at the site, located east of the boiler room of the northeastern site building (2260 Platt Road). This section provides a summary of the findings, conclusions, and recommendations based on the data obtained during the Phase II ESA.

4.1 Findings

The findings of this Phase II ESA are summarized as follows:

- The site stratigraphy encountered generally consisted of six to eight inches of topsoil underlain by sand with some gravel to the boring termination depths (approximately 7 to 10 feet bgs). Probe refusal conditions were encountered at each boring location, apparently due to gravel or cobbles within the sand. Groundwater was not encountered in the soil borings.
- No elevated PID readings, petroleum hydrocarbon odors, or stained soil were encountered in any of the soil borings, which were advanced within 5 feet of each side of the UST.
- No heating oil indicator parameters (BTEX, TMBs and PNAs) were detected in any of the soil samples.

4.2 <u>Conclusions</u>

The Phase II ESA was designed to assess the site for possible impacts associated with an out-of-service heating oil UST located east of the northeastern site building (2260 Platt Road). The Phase II ESA investigation included soil borings within 5 feet of the four side of the UST. Phase II ESA field observations and PID screening did not identify any indications of petroleum impacts in the soil borings. Laboratory analytical results of the soil samples collected during the Phase II ESA did not identify evidence of a heating oil release.

Based on the results of this investigation, it does not appear that the out-of-service heating oil UST has significantly impacted the site.

4.3 Recommendations

It is recommended that the heating oil UST be properly emptied of residual product (if any) and removed. No further actions are recommended at this time.



TABLES



TABLE 1.0 SOIL ANALYTICAL DATA (µg/kg)

TTL Project Number 6358.04 2260 and 2270 Platt Road

Ann Arbor, Michigan

Sample Location	CAS#	GP-1	GP-2	GP-3	DUP (GP-3)	GP-4	Part 201	Part 201 Residential Soil	Part 201
Sample Depth (feet bgs)		6'-6' 10"	6'-6' 10"	7'-9'	7'-9'	6'-7'6"	Residential Drinking Water Protection	Indoor Air	Direct Contact
Date of Collection		08/05/10	08/05/10	08/05/10	08/05/10	08/05/10	Criteria	Inhalation Criteria	Criteria
		Conc.	Conc.	Conc.	Conc.	Conc.			
1,2,3 - Trimethylbenzene	526738	ND	ND	ND	ND	ND	ID	ID	ID
1,2,4 - Trimethylbenzene	95636	ND	ND	ND	ND	ND	2,100	110,000	110,000
1,3,5 - Trimethylbenzene	108678	ND	ND	ND	ND	ND	1,800	94,000	94,000
Benzene	71432	ND	ND	ND	ND	ND	100	1,600	180,000
Ethylbenzene	100414	ND	ND	ND	ND	ND	1,500	87,000	140,000
Toluene	108883	ND	ND	ND	ND	ND	16,000	250,000	250,000
Xylenes (Total)	1330207	ND	ND	ND	ND	ND	5,600	150,000	150,000
PNAs	(various)	ND	ND	ND	ND	ND	(various)	(various)	(various)

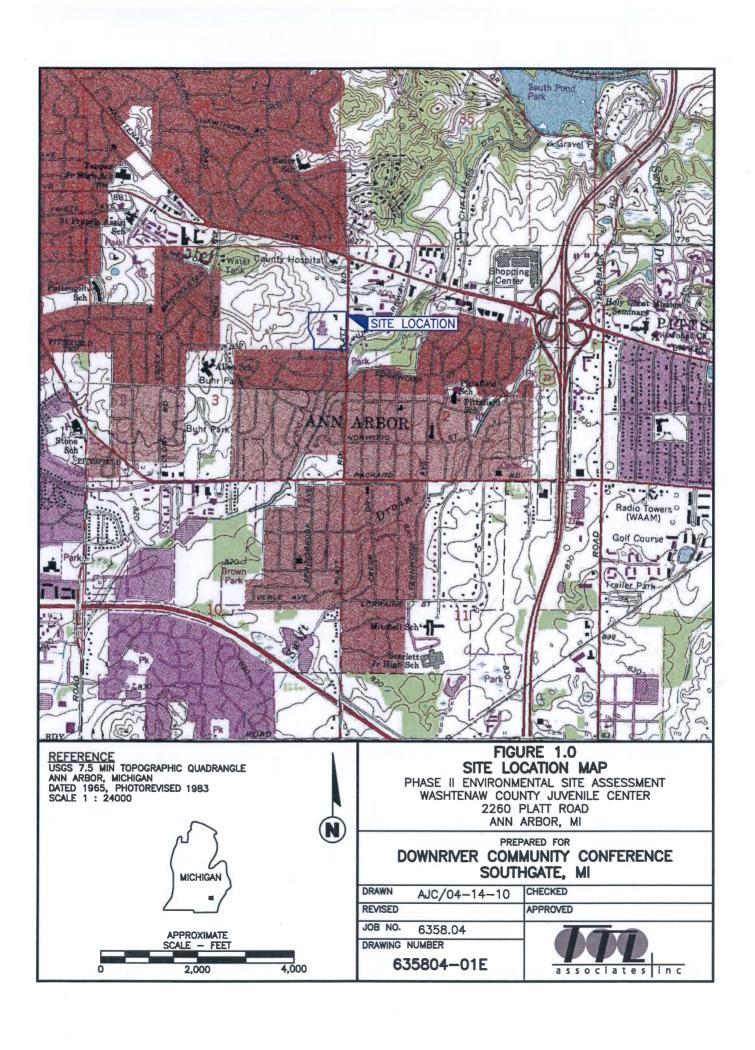
ND = Not detected at the reporting limit.

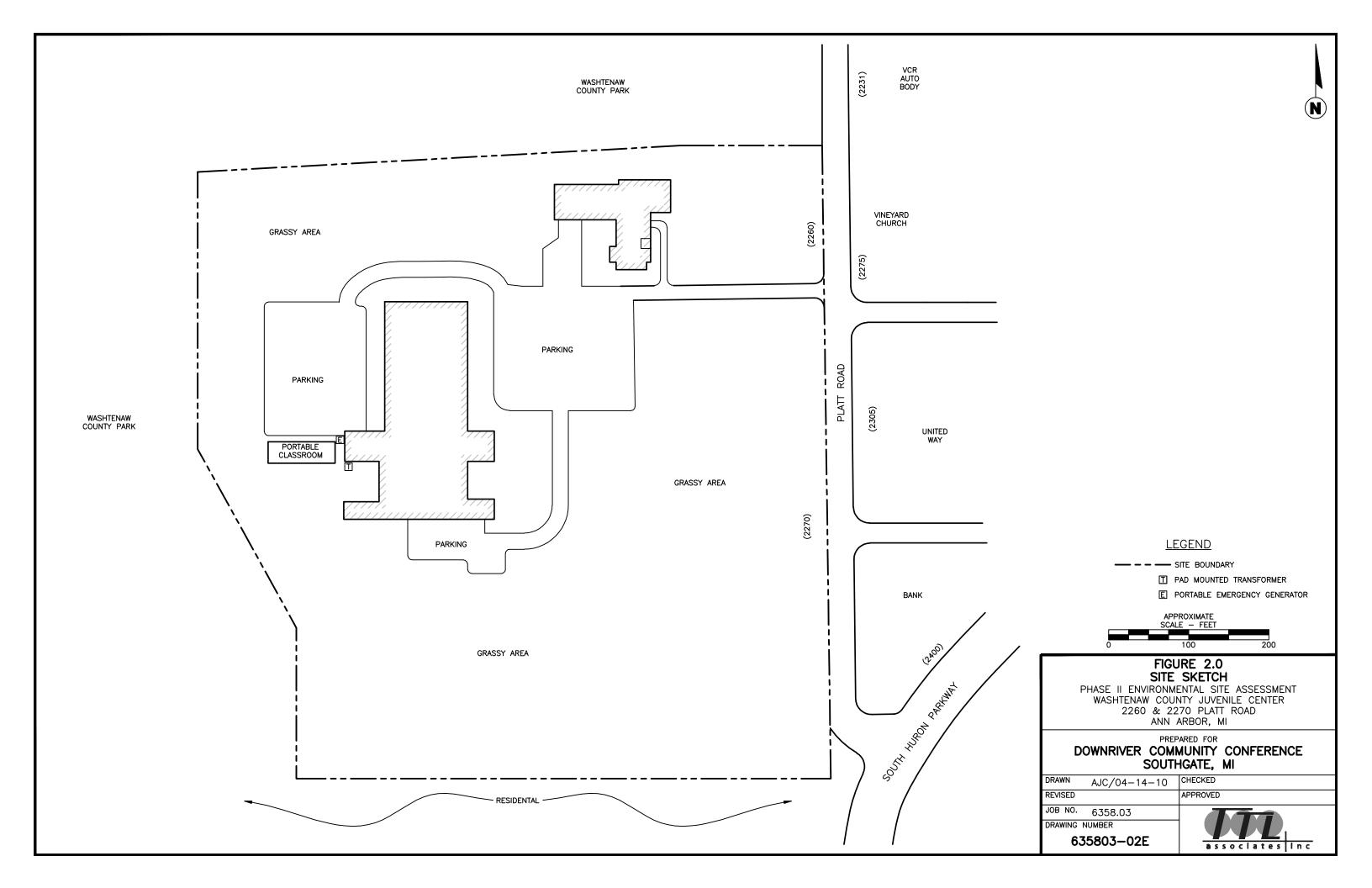
ID = MDNRE has not established a criterion for this compound/pathway.

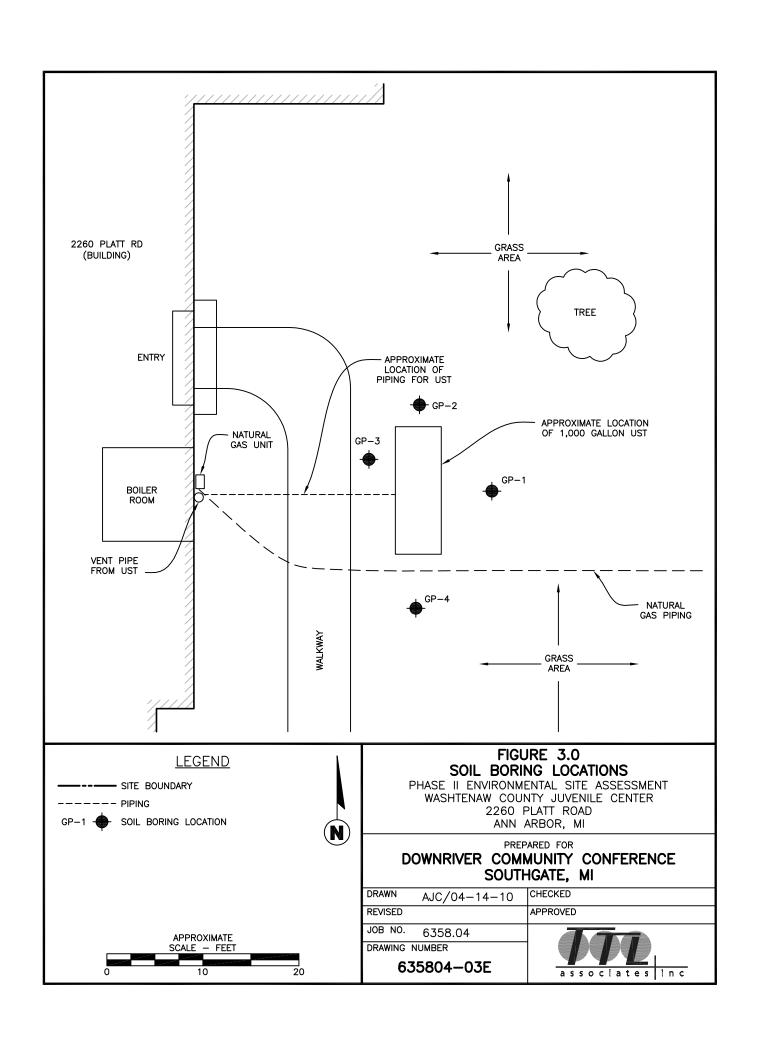
Refer to the laboratory analytical report for additional QA/QC analytical results.

FIGURES









APPENDIX A UST LOCATE – SUMMARY REPORT







May 18, 2010

Mr. William Goebel Washtenaw County 2155 Hogback Ann Arbor, MI 48107

RE:

UST Locate - Summary

2260 Platt Road

Ann Arbor, Michigan 48104 Project No.: 105010031

Dear Mr. Goebel:

CTI and Associates, Inc. (CTI) has completed the underground storage tank (UST) locate at 2260 Platt Road, City of Ann Arbor, Michigan. This letter is to provide a summary of the work completed for the UST locate on May 14, 2010. The scope of services was provided in general accordance with CTI Proposal 10PRO5010033, dated May 12, 2010.

On May 14, 2010, CTI met with Mr. William Goebel at the study property to locate the 1,000-gallon heating oil UST associated with the former heating system at the site building. Mr. Goebel informed CTI that the former site plans show the UST to be located adjacent to the boiler room on the east side of the site building.

During the visual evaluation of the site, CTI identified a vent pipe adjacent to the current natural gas meter and associated piping on the exterior of the building. CTI performed the UST locate using a CST Magna-Trak 100 magnetometer. Based on the location of the UST from the historic site plan, provided by Mr. Goebel, and the location of the vent pipe, CTI was able to approximate the location of the UST and associated piping using the magnetometer.

Based on readings from the magnetometer, the center of the UST appears to be approximately 20 feet east of the exterior boiler room wall and approximately 36 feet south of the perpendicular wall to the north. The dimensions of the UST identified by the magnetometer appear to be approximately 6 X 12 feet. However, the actual size of the UST is most likely closer to 4 X 11 feet. A copy of the map showing the approximate location of the UST is attached. Refer to plates I and II for site photos of the approximate UST location.

If you have any questions or comments regarding any of the work discussed above, please contact me.

Sincerely,

CTI and Associates, Inc.

Scott T. Jones Staff Scientist

10501003 LOCATE Civil Geotechnical, Environmental and Construction Materials Engineers (248) 486-5100 = 10 f+ SCALE: ___ OF SHEET: . DATE: 5/14/2010 CALCULATED BY: Scott DATE: _ CTI and Associates, Inc. CHECKED BY: _ N 2260 Platt Rd -Grass -Area (Building) Real Entry Approximate Boiler Room Natural Gas location of 1,000-Gallon UST Vent Pipe to UST Approximate location of piping for UST Walkway

DATE: 5/14/10

PHOTOGRAPHER: SCOTT JONES

LOCATION: STUDY PROPERTY

DIRECTION: WEST



A GENERAL VIEW OF THE APPROXIMATE UST LOCATION

DATE: 5/14/10

PHOTOGRAPHER: SCOTT JONES

LOCATION: STUDY PROPERTY

DIRECTION: NORTH



A GENERAL VIEW OF THE APPROXIMATE UST LOCATION



SITE PHOTOGRAPHS

WASHTENAW COUNTY 2260 PLATT ROAD ANN ARBOR, MICHIGAN PROJ: 105010031

SCALE: NONE

DATE: 5/17/10

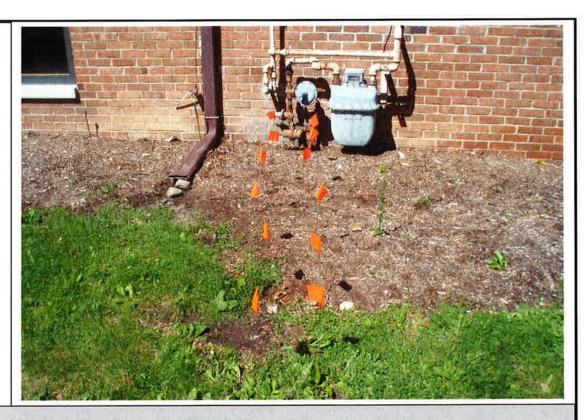
PLATE: I

DATE: 5/14/10

PHOTOGRAPHER: SCOTT JONES

LOCATION: STUDY PROPERTY

DIRECTION: WEST



A GENERAL VIEW OF THE APPROXIMATE UST PIPING LOCATION

DATE: 5/14/10

PHOTOGRAPHER: SCOTT JONES

LOCATION: STUDY PROPERTY

DIRECTION: SOUTHWEST



A GENERAL VIEW OF THE VENT PIPE



SITE PHOTOGRAPHS

WASHTENAW COUNTY 2260 PLATT ROAD ANN ARBOR, MICHIGAN PROJ: 105010031

SCALE: NONE

DATE: 5/17/10

PLATE: II

APPENDIX B SOIL BORING LOGS





BORING NUMBER GP-1 PAGE 1 OF 1

CLIEN	IT DC	CBC_	_		PROJECT NAME Washtenaw County Juvenile Center						
PROJ	ECT NU	MBER	6358.	04	PROJECT LOCATIO	N 226	30 Platt F	Road, Ann Arb	or, Michiga	an	
DRILL	ING CO	NTRA	CTOR _	TTL Associates				GROUND E	LEVATION	Ī	
DRILL	ING ME	THOD	Geop	robe	GROUND WATER LI	EVELS	:				
DATE	START	ED <u>8</u>	/5/10	COMPLETED 8/5/10	AT TIME OF D	RILLIN	G				
				CHECKED BY							
NOTE	S <u>App</u>	<u>roxima</u>	<u>tely 5' e</u>	east of UST	AFTER DRILL	ING	-				
o DEPTH o (ft)	ELEVATION (ft)	SAMPLE NUMBER GRAPHIC LOG LOG			RECOVERY NOWS			PID (La (p))	WELL DIAGRAM	
			77.77 7.77 7.77	TOPSOIL (8 Inches)							
				SAND - brown, coarse grained, some gravel dense to hard with depth, trace clay to 3', trabottom, moist	, trace organics, ce silt from 3' to	12	0				
5.0 		* GP-1				18	0				
				Geoprobe refusal at 6.8' Bottom of hole at 6.8 fer *Sample submitted for laborator			-				

TTL_ENVIRO_STANDARD 6358.04.GPJ GINT US LAB.GDT 9/15/10



BORING NUMBER GP-2 PAGE 1 OF 1

CLIEN	IT DC	CBC			PROJECT NAME _	Washte	naw Count	ty Juvenile Center	-			
PROJ	ECT N	JMBER	6358	3.04	PROJECT LOCATI	ON <u>226</u>	60 Platt Ro	oad, Ann Arbor, M	chigan			
DRILL	ING CO	ONTRA	CTOR	TTL Associates	RIG NO			GROUND ELEVA	TION			
DRILL	.ING MI	ETHOD	Geor	probe	GROUND WATER	LEVELS	:					
DATE	START	ED _8	/5/10	COMPLETED 8/5/10								
LOGG	ED BY	MHL		CHECKED BY	AT END OF DRILLING							
l .				north of UST								
						T		•		WELL DIAGRAM		
O DEPTH	0.0 W O TOPSOIL (6 Inches)			TION	RECOVERY	SPT BLOWS	PID (Log Scale) (ppm)					
				TOPSOIL (6 Inches)								
2.5			<u>v </u>	SAND - loamy dark brown, some gravel, tr		12						
GINT US LAB.GDT 9/15/10		* GP-2		Geoprobe refusal at 6.8' Bottom of hole at 6.8 *Sample submitted for laborat		18	0					
TTL_ENVIRO_STANDARD 6368.04.GPJ GINT US LAB.GDT 9/15/10												



BORING NUMBER GP-3 PAGE 1 OF 1

1	IT DC							PROJECT NA													
	ECT N																				
ı								RIG NO				_ GRC	OUND EI	LEVATIO	ON						
DRILL	ING M	ETHOD	_Geor	robe				_ GROUND WA	ATER LE	EVELS	:										
DATE	START	Γ ED <u>8</u>	/5/10		COMPLETE	ED <u>8/5/10</u>	<u>)</u>	. AT TIM	1E OF DE	RILLIN	G										
LOGG	ED BY	MHL			CHECKED	BY		. AT EN	T END OF DRILLING												
					Τ				AFTER DRILLING												
																5					
O DEPTH (ft))ESCRIPTIO	N ·		N ·		ON		ON		ON		RECOVERY	SPT BLOWS			g Scale om)		WELL DIAGRAM
0.0		- 0,	71.71	TOPSOIL	(6 Inches)						1		<u> </u>		1						
			<i>le</i> 3 <i>le</i> ·		coarse-graine			se clay, loose, m		30	C										
5.0		* GP-3								30)									
7.5	1	İ									زا	Į									
-	-								.		-	0 1									
 										12		0									
	•	•		Geoprobe	refusal at 9	.8'	ole at 9.8 fe			·	•••	•				•					
							or laborator														



BORING NUMBER GP-4 PAGE 1 OF 1

CLIEN	LIENT DCCBC			PROJECT NAME Washtenaw County Juvenile Center							
PROJ	ECT NU	JMBER		.04							
DRILL	ING CO	ONTRA	CTOR	TTL Associates	RIG NO			GROUND	ELEVATIO	ON	
				probe							
1				COMPLETED 8/5/10							
1				CHECKED BY							
NOTE	S App		tely 5' s	south of UST	AFTER DRIL	LING	<u>-</u>				
DEPTH (ft)				DN	RECOVERY SPT BLOWS		PID (Log Scale) (ppm)			WELL DIAGRAM	
0.0		O	<u> </u>	TOPSOIL (6 Inches)				10	100 10	00	
			1.71				Ó				
				SAND - loamy dark brown, fine to medium gorganics, trace clay, loose, moist	rained, trace	18	0				
2.5				- brown, coarse-grained, some gravel, trace with depth, moist	silt, dense to hard		0				
1 LAB.GDT 9/15/10		* GP-4				18	0				
의 <u>7.5</u>							Ó				
TTL_ENVIRO_STANDARD 6358.04.GPJ GINT US LAB.GDT 9/15/10				Geoprobe refusal at 7.5' Bottom of hole at 7.5 fe *Sample submitted for laborator							

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD





August 12, 2010

Steve Gach TTL Associates, Inc. 44265 Plymouth Oaks Blvd Plymouth, MI 48170-2585

TEL: (734) 455-8600 FAX: (734) 455-8608

RE: DCCBC - 6358.04 Order No.: 1008240

Dear Steve Gach:

RTI Laboratories received 6 sample(s) on 8/5/2010 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Robert Lynch

Senior Chemist and Special Projects Coordin

31628 Glendale St.

Livonia, Michigan 48150



Case Narrative

WO#: **1008240**Date: **8/12/2010**

CLIENT: TTL Associates, Inc.

Project: DCCBC - 6358.04

This report in its entirety consists of the documents listed below. All documents contain the RTI Work Order Number assigned to this report.

- 1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
 - 2. A Cover Letter that immediately precedes the Paginated Report.
 - 3. Paginated copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.



Analytical Report

(consolidated)

WO#: **1008240**Date Reported: **8/12/2010**

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 10:35:00 AM

Project: DCCBC - 6358.04

Lab ID: 1008240-001 **Matrix:** SOIL

Client Sample ID GP-1 6-6'10"

Analyses	Result	RL Qu	al Units	DF	Date A	Analyzed
LIGHT DISTILLATE OILS - LDO SEMI-VOLATILE ORGANIC COMP	OUNDS		SW8270C	SW	/3550C	Analyst: MT3
2-Methylnaphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Acenaphthene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Acenaphthylene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Benz(a)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Benzo(a)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Benzo(b)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Benzo(g,h,i)perylene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Benzo(k)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Chrysene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Dibenz(a,h)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Fluorene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Indeno(1,2,3-cd)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Naphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Phenanthrene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 5:16:00 PM
Surr: 2-Fluorobiphenyl	56.4	45-105	%REC	1	8/10/	2010 5:16:00 PM
Surr: Nitrobenzene-d5	52.3	35-100	%REC	1	8/10/	2010 5:16:00 PM
Surr: Terphenyl-d14	74.0	30-125	%REC	1	8/10/	2010 5:16:00 PM
LIGHT DISTILLATE OILS - LDO VOLATILE ORGANIC COMPOUND	os		SW8260B			Analyst: RH3
1,2,3-Trimethylbenzene	ND	52	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
1,2,4-Trimethylbenzene	ND	52	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
1,3,5-Trimethylbenzene	ND	52	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
Benzene	ND	31	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
Ethylbenzene	ND	52	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
Toluene	ND	52	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
Xylenes, Total	ND	160	μg/Kg-dry	50	8/8/2	010 12:58:00 AM
Surr: 4-Bromofluorobenzene	98.3	90.5-116	%REC	50	8/8/2	010 12:58:00 AM
Surr: Dibromofluoromethane	97.7	85-115	%REC	50	8/8/2	010 12:58:00 AM
Surr: Toluene-d8	100	87.2-110	%REC	50	8/8/2	010 12:58:00 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 10:35:00 AM

Project: DCCBC - 6358.04

Lab ID: 1008240-001 **Matrix:** SOIL

Client Sample ID GP-1 6-6'10"

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
LIGHT DISTILLATE OILS - LDO PERCENT MOISTURE			D22	116	Analyst: MP3
Percent Moisture	3.9	1.0	wt%	1	8/9/2010 12:00:00 PM

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limit

S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240 Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. **Collection Date:** 8/5/2010 11:15:00 AM

Project: DCCBC - 6358.04

Lab ID: Matrix: SOIL 1008240-002

Client Sample ID GP-2 6-6'10"

Analyses	Result	RL Qua	l Units	DF	Date A	analyzed
LIGHT DISTILLATE OILS - LDO SEMI-VOLATILE ORGANIC COMPO	DUNDS		SW8270C	SW	3550C	Analyst: MT3
2-Methylnaphthalene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Acenaphthene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Acenaphthylene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Anthracene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Benz(a)anthracene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Benzo(a)pyrene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Benzo(b)fluoranthene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Benzo(g,h,i)perylene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Benzo(k)fluoranthene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Chrysene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Dibenz(a,h)anthracene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Fluoranthene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Fluorene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Indeno(1,2,3-cd)pyrene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Naphthalene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Phenanthrene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Pyrene	ND	170	μg/Kg-dry	1	8/10/2	010 5:40:00 PM
Surr: 2-Fluorobiphenyl	55.6	45-105	%REC	1	8/10/2	010 5:40:00 PM
Surr: Nitrobenzene-d5	53.5	35-100	%REC	1	8/10/2	010 5:40:00 PM
Surr: Terphenyl-d14	71.5	30-125	%REC	1	8/10/2	010 5:40:00 PM
LIGHT DISTILLATE OILS - LDO VOLATILE ORGANIC COMPOUNDS	5		SW8260B			Analyst: RH3
1,2,3-Trimethylbenzene	ND	49	μg/Kg-dry	46.1	8/8/20	10 1:24:00 AM
1,2,4-Trimethylbenzene	ND	49	μg/Kg-dry	46.1	8/8/20	10 1:24:00 AM
1,3,5-Trimethylbenzene	ND	49	μg/Kg-dry	46.1	8/8/20	10 1:24:00 AM
Benzene	ND	29	μg/Kg-dry	46.1	8/8/20	10 1:24:00 AM
Ethylbenzene	ND	49	μg/Kg-dry	46.1	8/8/20	10 1:24:00 AM
Toluene	ND	49	μg/Kg-dry	46.1		10 1:24:00 AM
Xylenes, Total	ND	150	μg/Kg-dry	46.1		10 1:24:00 AM
Surr: 4-Bromofluorobenzene	99.7	90.5-116	%REC	46.1	8/8/20	10 1:24:00 AM
Surr: Dibromofluoromethane	98.4	85-115	%REC	46.1	8/8/20	10 1:24:00 AM
Surr: Toluene-d8	99.7	87.2-110	%REC	46.1	8/8/20	10 1:24:00 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit Reporting Detection Limit RL

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Manual Integration used to determine area response
- PL Permit Limit
- Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 11:15:00 AM

Project: DCCBC - 6358.04

Lab ID: 1008240-002 **Matrix:** SOIL

Client Sample ID GP-2 6-6'10"

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
LIGHT DISTILLATE OILS - LDO PERCENT MOISTURE			D22	216	Analyst: MP3
Percent Moisture	6.0	1.0	wt%	1	8/9/2010 12:00:00 PM

Value above quantitation range
 Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limit

S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 11:35:00 AM

Project: DCCBC - 6358.04

Lab ID: 1008240-003 **Matrix:** SOIL

Client Sample ID GP-3 7-9'

Analyses	Result	RL Qual	Units	DF	Date	Analyzed
LIGHT DISTILLATE OILS - LDO SEMI-VOLATILE ORGANIC COMP	POUNDS		SW8270C	SW	/3550C	Analyst: MT3
2-Methylnaphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Acenaphthene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Acenaphthylene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Benz(a)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Benzo(a)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Benzo(b)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Benzo(g,h,i)perylene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Benzo(k)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Chrysene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Dibenz(a,h)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Fluorene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Naphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Phenanthrene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 6:04:00 PM
Surr: 2-Fluorobiphenyl	72.7	45-105	%REC	1	8/10/	2010 6:04:00 PM
Surr: Nitrobenzene-d5	72.0	35-100	%REC	1	8/10/	2010 6:04:00 PM
Surr: Terphenyl-d14	90.2	30-125	%REC	1	8/10/	2010 6:04:00 PM
LIGHT DISTILLATE OILS - LDO VOLATILE ORGANIC COMPOUNI	os		SW8260B			Analyst: RH3
1,2,3-Trimethylbenzene	ND	54	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
1,2,4-Trimethylbenzene	ND	54	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
1,3,5-Trimethylbenzene	ND	54	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
Benzene	ND	32	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
Ethylbenzene	ND	54	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
Toluene	ND	54	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
Xylenes, Total	ND	160	μg/Kg-dry	50	8/7/2	010 9:59:00 PM
Surr: 4-Bromofluorobenzene	101	90.5-116	%REC	50	8/7/2	010 9:59:00 PM
Surr: Dibromofluoromethane	97.3	85-115	%REC	50	8/7/2	010 9:59:00 PM
Surr: Toluene-d8	101	87.2-110	%REC	50	8/7/2	010 9:59:00 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 11:35:00 AM

Project: DCCBC - 6358.04

Lab ID: 1008240-003 **Matrix:** SOIL

Client Sample ID GP-3 7-9'

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
LIGHT DISTILLATE OILS - LDO PERCENT MOISTURE			D22	216	Analyst: MP3
Percent Moisture	6.8	1.0	wt%	1	8/9/2010 12:00:00 PM

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: **1008240**Date Reported: **8/12/2010**

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010

Project: DCCBC - 6358.04

Lab ID: 1008240-004 **Matrix:** SOIL

Client Sample ID DUP

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
LIGHT DISTILLATE OILS - LDO SEMI-VOLATILE ORGANIC COMPO	DUNDS		SW8270C	SW	3550C Analyst: M
2-Methylnaphthalene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Acenaphthene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Acenaphthylene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Anthracene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Benz(a)anthracene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Benzo(a)pyrene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Benzo(b)fluoranthene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Benzo(g,h,i)perylene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Benzo(k)fluoranthene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PM
Chrysene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Dibenz(a,h)anthracene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Fluoranthene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Fluorene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Indeno(1,2,3-cd)pyrene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Naphthalene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Phenanthrene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Pyrene	ND	170	μg/Kg-dry	1	8/10/2010 7:16:00 PN
Surr: 2-Fluorobiphenyl	62.4	45-105	%REC	1	8/10/2010 7:16:00 PM
Surr: Nitrobenzene-d5	63.1	35-100	%REC	1	8/10/2010 7:16:00 PN
Surr: Terphenyl-d14	86.9	30-125	%REC	1	8/10/2010 7:16:00 PM
LIGHT DISTILLATE OILS - LDO VOLATILE ORGANIC COMPOUNDS	3		SW8260B		Analyst: RI
1,2,3-Trimethylbenzene	ND	50	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
1,2,4-Trimethylbenzene	ND	50	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
1,3,5-Trimethylbenzene	ND	50	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
Benzene	ND	30	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
Ethylbenzene	ND	50	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
Toluene	ND	50	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
Xylenes, Total	ND	150	μg/Kg-dry	45.8	8/8/2010 1:49:00 AM
Surr: 4-Bromofluorobenzene	98.9	90.5-116	%REC	45.8	8/8/2010 1:49:00 AM
Surr: Dibromofluoromethane	98.7	85-115	%REC	45.8	8/8/2010 1:49:00 AM
Surr: Toluene-d8	101	87.2-110	%REC	45.8	8/8/2010 1:49:00 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010

Project: DCCBC - 6358.04

Lab ID: 1008240-004 **Matrix:** SOIL

Client Sample ID DUP

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
LIGHT DISTILLATE OILS - LDO PERCENT MOISTURE			D22	216	Analyst: MP3
Percent Moisture	8.3	1.0	wt%	1	8/9/2010 12:00:00 PM

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010 12:15:00 PM

Project: DCCBC - 6358.04

Lab ID: 1008240-005 **Matrix:** SOIL

Client Sample ID GP-4 6'-7'6"

Analyses	Result	Result RL Qual		DF	Date .	Analyzed
LIGHT DISTILLATE OILS - LDO SEMI-VOLATILE ORGANIC COMP	POUNDS		SW8270C	SW	/3550C	Analyst: MT3
2-Methylnaphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Acenaphthene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Acenaphthylene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Benz(a)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Benzo(a)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Benzo(b)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Benzo(g,h,i)perylene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Benzo(k)fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Chrysene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Dibenz(a,h)anthracene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Fluoranthene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Fluorene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Indeno(1,2,3-cd)pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Naphthalene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Phenanthrene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Pyrene	ND	170	μg/Kg-dry	1	8/10/	2010 7:40:00 PM
Surr: 2-Fluorobiphenyl	72.6	45-105	%REC	1	8/10/	2010 7:40:00 PM
Surr: Nitrobenzene-d5	69.1	35-100	%REC	1	8/10/	2010 7:40:00 PM
Surr: Terphenyl-d14	92.2	30-125	%REC	1	8/10/	2010 7:40:00 PM
LIGHT DISTILLATE OILS - LDO VOLATILE ORGANIC COMPOUND	os		SW8260B			Analyst: RH3
1,2,3-Trimethylbenzene	ND	53	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
1,2,4-Trimethylbenzene	ND	53	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
1,3,5-Trimethylbenzene	ND	53	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
Benzene	ND	32	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
Ethylbenzene	ND	53	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
Toluene	ND	53	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
Xylenes, Total	ND	160	μg/Kg-dry	50	8/8/2	010 2:15:00 AM
Surr: 4-Bromofluorobenzene	97.9	90.5-116	%REC	50	8/8/2	010 2:15:00 AM
Surr: Dibromofluoromethane	99.4	85-115	%REC	50	8/8/2	010 2:15:00 AM
Surr: Toluene-d8	100	87.2-110	%REC	50	8/8/2	010 2:15:00 AM

- */X Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

Collection Date: 8/5/2010 12:15:00 PM

CLIENT: TTL Associates, Inc.

Project: DCCBC - 6358.04

Lab ID: 1008240-005 **Matrix:** SOIL

Client Sample ID GP-4 6'-7'6"

Analyses	Result RL Qual Units		DF	Date Analyzed	
LIGHT DISTILLATE OILS - LDO PERCENT MOISTURE			D22	216	Analyst: MP3
Percent Moisture	6.2	1.0	wt%	1	8/9/2010 12:00:00 PM

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limit

S Spike Recovery outside accepted recovery limits



Analytical Report

(consolidated)

WO#: 1008240
Date Reported: 8/12/2010

CLIENT: TTL Associates, Inc. Collection Date: 8/5/2010

Project: DCCBC - 6358.04 **Lab ID:** 1008240-006

Client Sample ID MeOH Blank

Matrix: METHANOL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW826	60B	Analyst: RH3
1,2,4-Trimethylbenzene	ND	50	μg/Kg	50	8/7/2010 9:33:00 PM
1,3,5-Trimethylbenzene	ND	50	μg/Kg	50	8/7/2010 9:33:00 PM
Benzene	ND	30	μg/Kg	50	8/7/2010 9:33:00 PM
Ethylbenzene	ND	50	μg/Kg	50	8/7/2010 9:33:00 PM
Toluene	ND	50	μg/Kg	50	8/7/2010 9:33:00 PM
Xylenes, Total	ND	150	μg/Kg	50	8/7/2010 9:33:00 PM
Surr: 4-Bromofluorobenzene	99.5	90.5-116	%REC	50	8/7/2010 9:33:00 PM
Surr: Dibromofluoromethane	97.9	85-115	%REC	50	8/7/2010 9:33:00 PM
Surr: Toluene-d8	100	87.2-110	%REC	50	8/7/2010 9:33:00 PM

Qualifiers:

/X Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limit

S Spike Recovery outside accepted recovery limits



DATES REPORT

WO#: **1008240**

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1008240-001A	GP-1 6-6'10"	8/5/2010 10:35:00 AM	Soil	Volatile Organic Compounds			8/8/2010 12:58:00 AM
1008240-001B				PERCENT MOISTURE			8/9/2010 12:00:00 PM
				Semi-Volatile Organic Compounds		8/10/2010 8:11:20 AM	8/10/2010 5:16:00 PM
1008240-002A	GP-2 6-6'10"	8/5/2010 11:15:00 AM		Volatile Organic Compounds			8/8/2010 1:24:00 AM
1008240-002B				PERCENT MOISTURE			8/9/2010 12:00:00 PM
				Semi-Volatile Organic Compounds		8/10/2010 8:11:20 AM	8/10/2010 5:40:00 PM
1008240-003A	GP-3 7-9'	8/5/2010 11:35:00 AM		Volatile Organic Compounds			8/7/2010 9:59:00 PM
1008240-003B				PERCENT MOISTURE			8/9/2010 12:00:00 PM
				Semi-Volatile Organic Compounds		8/10/2010 8:11:20 AM	8/10/2010 6:04:00 PM
1008240-004A	DUP	8/5/2010		Volatile Organic Compounds			8/8/2010 1:49:00 AM
1008240-004B				PERCENT MOISTURE			8/9/2010 12:00:00 PM
				Semi-Volatile Organic Compounds		8/10/2010 8:11:20 AM	8/10/2010 7:16:00 PM
1008240-005A	GP-4 6'-7'6"	8/5/2010 12:15:00 PM		Volatile Organic Compounds			8/8/2010 2:15:00 AM
1008240-005B				PERCENT MOISTURE			8/9/2010 12:00:00 PM
				Semi-Volatile Organic Compounds		8/10/2010 8:11:20 AM	8/10/2010 7:40:00 PM
1008240-006A	MeOH Blank	8/5/2010	Methanol	Volatile Organic Compounds			8/7/2010 9:33:00 PM



QC SUMMARY REPORT

WO#:

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04 TestCode: PMOIST

Sample ID: 1008202-001ADUP Client ID: ZZZZZZ	SampType: DUP Batch ID: R35337	TestCode: PMOIST TestNo: D2216	Units: wt%	Prep Date: Analysis Date: 8/9/2010	RunNo: 35337 SeqNo: 648896
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Percent Moisture	2.5	1.0		2.496	0.143 20
Sample ID: 1008202-002ADUP	SampTime: DUD	TestCode: PMOIST	Units: wt%	Deep Date:	
Client ID: ZZZZZZ	SampType: DUP Batch ID: R35337	TestNo: D2216	OTHIS. WE76	Prep Date: Analysis Date: 8/9/2010	RunNo: 35337 SeqNo: 648898
Client ID: ZZZZZZ Analyte			SPK Ref Val	'	

Value exceeds Maximum Contaminant Level

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#:

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCRC 6358.04

Project: DCCBC - 6358.04 TestCode: SW_8260S

Sample ID: 10ug/kg LCS 10uL	SampType: Ics	TestCo	de: sw_8260s	Units: µg/Kg	Prep Date:				RunNo: 353	345	
Client ID: LCSS	Batch ID: R35345	TestN	lo: SW8260B			Analysis Da	te: 8/7/201	0	SeqNo: 649	9164	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	540	50	500.0	0	107	74	126				
1,2,4-Trimethylbenzene	560	50	500.0	0	112	79.2	125				
1,3,5-Trimethylbenzene	540	50	500.0	0	108	80.5	127				
Benzene	510	30	500.0	0	101	75	125				
Ethylbenzene	540	50	500.0	0	107	80.2	125				
Toluene	520	50	500.0	0	105	76.3	125				
Xylenes, Total	1,600	150	1,500	0	107	80	124				
Surr: 4-Bromofluorobenzene	2,500		2,500		101	90.5	116				
Surr: Dibromofluoromethane	2,500		2,500		98.7	85	115				
Surr: Toluene-d8	2,500		2,500		99.1	87.2	110				
Sample ID: Blank 1mLMeOH/50	SampType: mblk	TestCod	de: sw_8260s	Units: µg/Kg	Units: µg/Kg Prep Date:			RunNo: 353	345		
Client ID: PBS	Batch ID: R35345	TestN	lo: SW8260B			Analysis Da	te: 8/7/201	0	SeqNo: 649	165	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	ND	50									
1,2,4-Trimethylbenzene	ND	50									
1,3,5-Trimethylbenzene	ND	50									
Benzene	ND	30									
Ethylbenzene	ND	50									
Toluene	ND	50									
Xylenes, Total	ND	150									
Surr: 4-Bromofluorobenzene	2,500		2,500		100	90.5	116				
Surr: Dibromofluoromethane	2,400		2,500		97.6	85	115				
Surr: Toluene-d8	2,500		2,500		101	87.2	110				
Qualifici 5.	timum Contaminant Level			pove quantitation range Integration used to determine	oros rasponas		H ND	Holding times for prep Not Detected at the Re	•	ceede	

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- M Manual Integration used to determine area response
 - Reporting Detection Limit

- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

TestCode: SW_8260S

WO#: 1

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04

Sample ID: 1008240-003ams	SampType: ms	TestCode: sw_8260s		Units: µg/Kg-d	Units: µg/Kg-dry Prep Date:				RunNo: 35345			
Client ID: GP-3 7-9'	Batch ID: R35345	TestN	No: SW8260B		Analysis Date: 8/7/2010			SeqNo: 649				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2,3-Trimethylbenzene	550	54	536.3	0	103	74	126					
1,2,4-Trimethylbenzene	570	54	536.3	0	106	79.2	125					
1,3,5-Trimethylbenzene	560	54	536.3	0	104	80.5	127					
Benzene	540	32	536.3	0	101	75	125					
Ethylbenzene	570	54	536.3	0	106	80.2	125					
Toluene	570	54	536.3	0	106	76.3	125					
Xylenes, Total	1,700	160	1,609	0	104	80	124					
Surr: 4-Bromofluorobenzene	2,700		2,682		99.7	90.5	116					
Surr: Dibromofluoromethane	2,600		2,682		96.7	85	115					
Surr: Toluene-d8	2,700		2,682		100	87.2	110					
Sample ID: 1008240-003amsd	SampType: msd	TestCo	de: sw 8260s	Units: µg/Kg-d	lrv	Prep Da	te:		RunNo: 353	45		

Sample ID: 1008240-003amsd	SampType: msd	TestCod	de: sw_8260s	Units: µg/K	g-dry	Prep Da	te:		RunNo: 353	345	
Client ID: GP-3 7-9'	Batch ID: R35345	TestN	lo: SW8260B			Analysis Da	te: 8/7/201	0	SeqNo: 649	171	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	560	54	536.3	0	104	74	126	554.0	0.963	25	
1,2,4-Trimethylbenzene	560	54	536.3	0	105	79.2	125	568.5	1.04	25	
1,3,5-Trimethylbenzene	550	54	536.3	0	102	80.5	127	559.4	1.94	25	
Benzene	530	32	536.3	0	99.2	75	125	542.2	1.90	25	
Ethylbenzene	560	54	536.3	0	104	80.2	125	569.0	1.90	25	
Toluene	560	54	536.3	0	105	76.3	125	566.4	1.05	25	
Xylenes, Total	1,600	160	1,609	0	102	80	124	1,667	1.43	25	
Surr: 4-Bromofluorobenzene	2,700		2,682		101	90.5	116		0	25	
Surr: Dibromofluoromethane	2,600		2,682		98.6	85	115		0	25	
Surr: Toluene-d8	2,700		2,682		101	87.2	110		0	25	

[/]X Value exceeds Maximum Contaminant Level

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#:

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04

DCCBC - 6358.04 TestCode: SW_8270S

Sample ID: MB-18921	SampType: MBLK	TestCoo	le: SW_8270S	Units: µg/Kg		Prep Da	te: 8/10/20	10	RunNo: 353	93	
Client ID: PBS	Batch ID: 18921	TestN	lo: SW8270C	SW3550C		Analysis Da	te: 8/10/20	10	SeqNo: 650	1438	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	160									
Acenaphthene	ND	160									
Acenaphthylene	ND	160									
Anthracene	ND	160									
Benz(a)anthracene	ND	160									
Benzo(a)pyrene	ND	160									
Benzo(b)fluoranthene	ND	160									
Benzo(g,h,i)perylene	ND	160									
Benzo(k)fluoranthene	ND	160									
Chrysene	ND	160									
Dibenz(a,h)anthracene	ND	160									
Fluoranthene	ND	160									
Fluorene	ND	160									
Indeno(1,2,3-cd)pyrene	ND	160									
Naphthalene	ND	160									
Phenanthrene	ND	160									
Pyrene	ND	160									
Surr: 2,4,6-Tribromophenol	820		832.2		98.5	35	125				
Surr: 2-Fluorobiphenyl	630		832.2		76.0	45	105				
Surr: 2-Fluorophenol	560		832.2		67.8	35	105				
Surr: Nitrobenzene-d5	610		832.2		73.1	35	100				
Surr: Phenol-d5	360		832.2		43.7	40	100				
Surr: Terphenyl-d14	770		832.2		92.6	30	125				

X Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#:

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04 **TestCode:** SW_8270S

Sample ID: LCS-18921	SampType: LCS	TestCo	de: SW_8270S	Units: µg/Kg	Prep Date: 8/10/2010				RunNo: 35393			
Client ID: LCSS	Batch ID: 18921	TestN	lo: SW8270C	SW3550C		Analysis Da	ite: 8/10/20	10	SeqNo: 650	439		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
2-Methylnaphthalene	490	160	666.0	0	73.5	45	105					
Acenaphthene	550	160	666.0	0	82.8	45	110					
Acenaphthylene	540	160	666.0	0	81.6	45	105					
Anthracene	580	160	666.0	0	86.7	55	105					
Benz(a)anthracene	610	160	666.0	0	91.0	50	110					
Benzo(a)pyrene	600	160	666.0	0	89.4	50	110					
Benzo(b)fluoranthene	600	160	666.0	0	90.7	45	115				m	
Benzo(g,h,i)perylene	690	160	666.0	0	104	40	125					
Benzo(k)fluoranthene	590	160	666.0	0	89.0	45	125					
Chrysene	610	160	666.0	0	91.6	55	110					
Dibenz(a,h)anthracene	700	160	666.0	0	105	40	125					
Fluoranthene	630	160	666.0	0	93.9	55	115					
Fluorene	600	160	666.0	0	89.6	50	110					
Indeno(1,2,3-cd)pyrene	700	160	666.0	0	105	40	120					
Naphthalene	440	160	666.0	0	66.3	40	105					
Phenanthrene	580	160	666.0	0	87.7	50	110					
Pyrene	600	160	666.0	0	89.9	45	125					
Surr: 2,4,6-Tribromophenol	1,000		832.5		121	35	125					
Surr: 2-Fluorobiphenyl	740		832.5		88.6	45	105					
Surr: 2-Fluorophenol	610		832.5		73.7	35	105					
Surr: Nitrobenzene-d5	690		832.5		83.4	35	100					
Surr: Phenol-d5	400		832.5		47.8	40	100					
Surr: Terphenyl-d14	850		832.5		102	30	125					

Qualifiers:

Е

Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: **1008240**

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04

: DCCBC - 6358.04 TestCode: SW_8270S

Sample ID: 1008240-003BMS	SampType: MS	TestCoo	le: SW_8270S	Units: µg/Kg	g-dry	Prep Da	te: 8/10/20	10	RunNo: 353	93	
Client ID: GP-3 7-9'	Batch ID: 18921	TestN	o: SW8270C	SW3550C		Analysis Da	te: 8/10/20	10	SeqNo: 650	443	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	460	170	711.8	0	64.9	45	105				
Acenaphthene	510	170	711.8	0	71.1	45	110				
Acenaphthylene	500	170	711.8	0	69.9	45	105				
Anthracene	560	170	711.8	0	78.9	55	105				
Benz(a)anthracene	580	170	711.8	0	81.1	50	110				
Benzo(a)pyrene	590	170	711.8	0	82.9	50	110				
Benzo(b)fluoranthene	590	170	711.8	0	82.9	45	115				
Benzo(g,h,i)perylene	590	170	711.8	0	83.5	40	125				
Benzo(k)fluoranthene	610	170	711.8	0	86.2	45	125				
Chrysene	600	170	711.8	0	83.8	55	110				
Dibenz(a,h)anthracene	640	170	711.8	0	89.3	40	125				
Fluoranthene	590	170	711.8	0	82.6	55	115				
Fluorene	550	170	711.8	0	77.0	50	110				
Indeno(1,2,3-cd)pyrene	630	170	711.8	0	88.1	40	120				
Naphthalene	410	170	711.8	0	58.2	40	105				
Phenanthrene	560	170	711.8	0	78.2	50	110				
Pyrene	570	170	711.8	0	80.2	45	125				
Surr: 2,4,6-Tribromophenol	1,000		889.7		115	35	125				
Surr: 2-Fluorobiphenyl	720		889.7		81.0	45	105				
Surr: 2-Fluorophenol	630		889.7		70.9	35	105				
Surr: Nitrobenzene-d5	710		889.7		80.1	35	100				
Surr: Phenol-d5	400		889.7		45.2	40	100				
Surr: Terphenyl-d14	860		889.7		96.4	30	125				

Qualifiers:

Е

Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: 1

1008240

12-Aug-10

Client: TTL Associates, Inc.

Project: DCCBC - 6358.04

 Project:
 DCCBC - 6358.04

 TestCode:
 SW_8270S

Sample ID: 1008240-003BMSD	SampType: MSD	TestCod	de: SW_8270S	Units: µg/K	g-dry	Prep Da	te: 8/10/20	10	RunNo: 353	93	
Client ID: GP-3 7-9'	Batch ID: 18921	TestN	lo: SW8270C	SW3550C		Analysis Da	te: 8/10/20	10	SeqNo: 650	1444	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	460	170	714.6	0	64.4	45	105	462.0	0.297	25	
Acenaphthene	520	170	714.6	0	72.2	45	110	506.4	1.93	25	
Acenaphthylene	500	170	714.6	0	69.5	45	105	497.9	0.175	25	
Anthracene	590	170	714.6	0	81.9	55	105	561.6	4.19	25	
Benz(a)anthracene	620	170	714.6	0	86.2	50	110	577.3	6.50	25	
Benzo(a)pyrene	610	170	714.6	0	86.0	50	110	590.1	4.07	25	
Benzo(b)fluoranthene	630	170	714.6	0	87.6	45	115	590.4	5.91	25	m
Benzo(g,h,i)perylene	630	170	714.6	0	88.1	40	125	594.7	5.70	25	
Benzo(k)fluoranthene	620	170	714.6	0	87.3	45	125	613.6	1.67	25	
Chrysene	620	170	714.6	0	87.2	55	110	596.8	4.37	25	
Dibenz(a,h)anthracene	660	170	714.6	0	92.2	40	125	636.0	3.59	25	
Fluoranthene	620	170	714.6	0	87.4	55	115	587.9	6.10	25	
Fluorene	570	170	714.6	0	79.9	50	110	548.4	4.03	25	
Indeno(1,2,3-cd)pyrene	650	170	714.6	0	91.1	40	120	627.4	3.69	25	
Naphthalene	430	170	714.6	0	59.9	40	105	414.6	3.19	25	
Phenanthrene	590	170	714.6	0	83.1	50	110	556.6	6.47	25	
Pyrene	620	170	714.6	0	86.3	45	125	570.9	7.73	25	
Surr: 2,4,6-Tribromophenol	1,000		893.3		114	35	125		0	25	
Surr: 2-Fluorobiphenyl	630		893.3		70.7	45	105		0	25	
Surr: 2-Fluorophenol	570		893.3		64.0	35	105		0	25	
Surr: Nitrobenzene-d5	620		893.3		68.9	35	100		0	25	
Surr: Phenol-d5	370		893.3		41.4	40	100		0	25	
Surr: Terphenyl-d14	860		893.3		96.5	30	125		0	25	

Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

RPD outside accepted recovery limits

E Value above quantitation range

M Manual Integration used to determine area response

RL Reporting Detection Limit

H Holding times for preparation or analysis exceede

ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits



CHAIN OF CUSTODY RECORD







Please Include Email Address of Report Recipient III





SBA BOS / (8)/9

RTI LABORATORIES, INC. MAINLAB

31628 Glendale Street Livoria, MI 48150-1627

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TTL ASSOCIATED INC.	100	2260 PLATT ROAD , ANN AKECK, MI	SPECIAL BOSH ROCKERS TO CAMPANTS		MASOLIA III

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